(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 2 June 2005 (02.06.2005)

PCT

(10) International Publication Number WO 2005/049716 A1

(51) International Patent Classification7: C08K 5/00, 3/00

(21) International Application Number:

PCT/IN2003/000365

(22) International Filing Date:

21 November 2003 (21.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

- (71) Applicants (for all designated States except US): INDIAN PETROCHEMICALS CORPORATION LIMITED [IN/IN]; P.O. Petrochemicals, District Vadodara 391 346, Gujarat (IN). RELIANCE INDUSTRIES LTD. [IN/IN]; Makers Chambers-IV, Nariman Point, Mumbai 400 021, Maharashtra (IN).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BANERJI, Sujit [IN/IN]; Indian Petrochemicals Corporation Limited, P.O. Petrochemicals, District Vadodara 391 346, Gujarat (IN). KULSHRESHTHA, Anand, Kumar [IN/IN]; Indian Petrochemicals Corporation Limited, P.O. Petrochemicals, District Vadodara 391 346, Gujarat (IN). CHOUDHARY, Manjeet, Singh [IN/IN]; Indian Petrochemicals Corporation Limited, P.O. Petrochemicals, District Vadodara 391 346, Gujarat (IN). XAVIER, Sodagudi, Francis

[IN/IN]; Indian Petrochemicals Corporation Limited, P.O. Petrochemicals, District Vadodara 391 346, Gujarat (IN).

- (74) Agents: SUBRAMANIAM, Hariharan et al.; Subramaniam, Nataraj and Associates, E-556 Greater Kailash II, New Delhi 110 048 (IN).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLAME RETARDANT POLYOLEFIN BLENDS

(57) Abstract: A Flame retardant composition and a process for the preparation thereof is disclosed. The blends of the invention are prepared by melt-mixing (I) a base polymer which is a polyolefin polymer or a blend of two polyolefin polymers (ii) melamine or its derivative such as melamine cyanurate or melamine phosphate (iii) a metal hydroxide, where the metal involved could be magnesium or aluminum and (iv) a compatibilizer, in a Buss co-kneader (or a twin screw extruder). The polyolefin blends of this invention exhibit flame retardancy by passing UL 94 V-0 test, with balanced mechanical Properties.

